



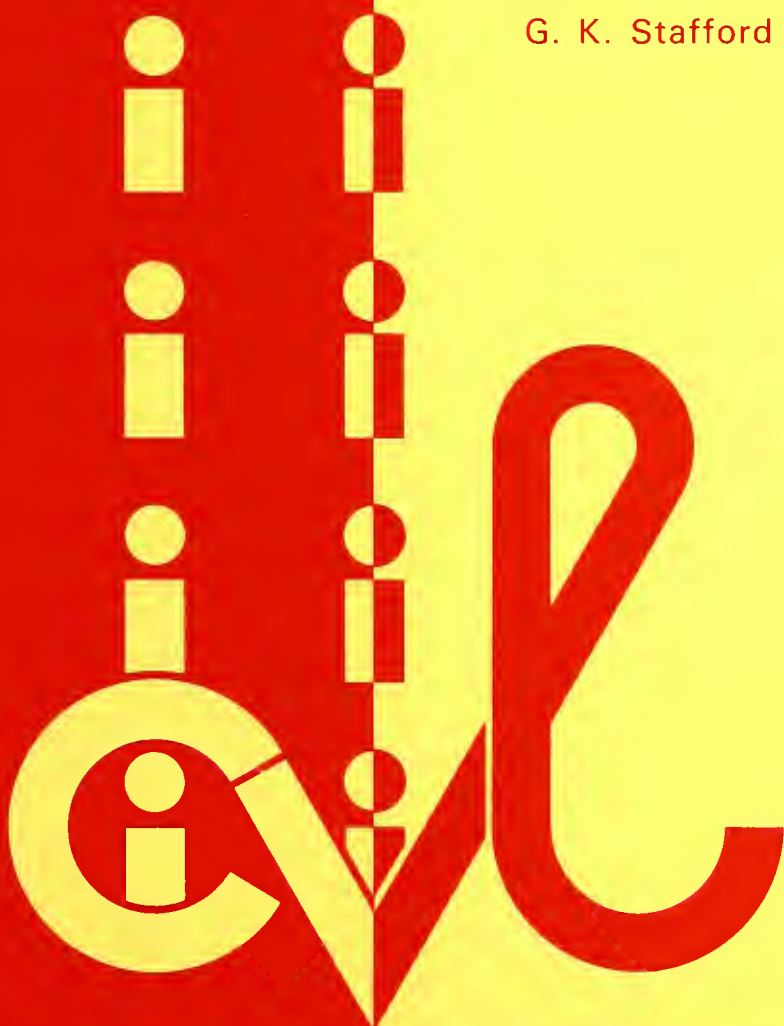
JOINT HIGHWAY RESEARCH PROJECT

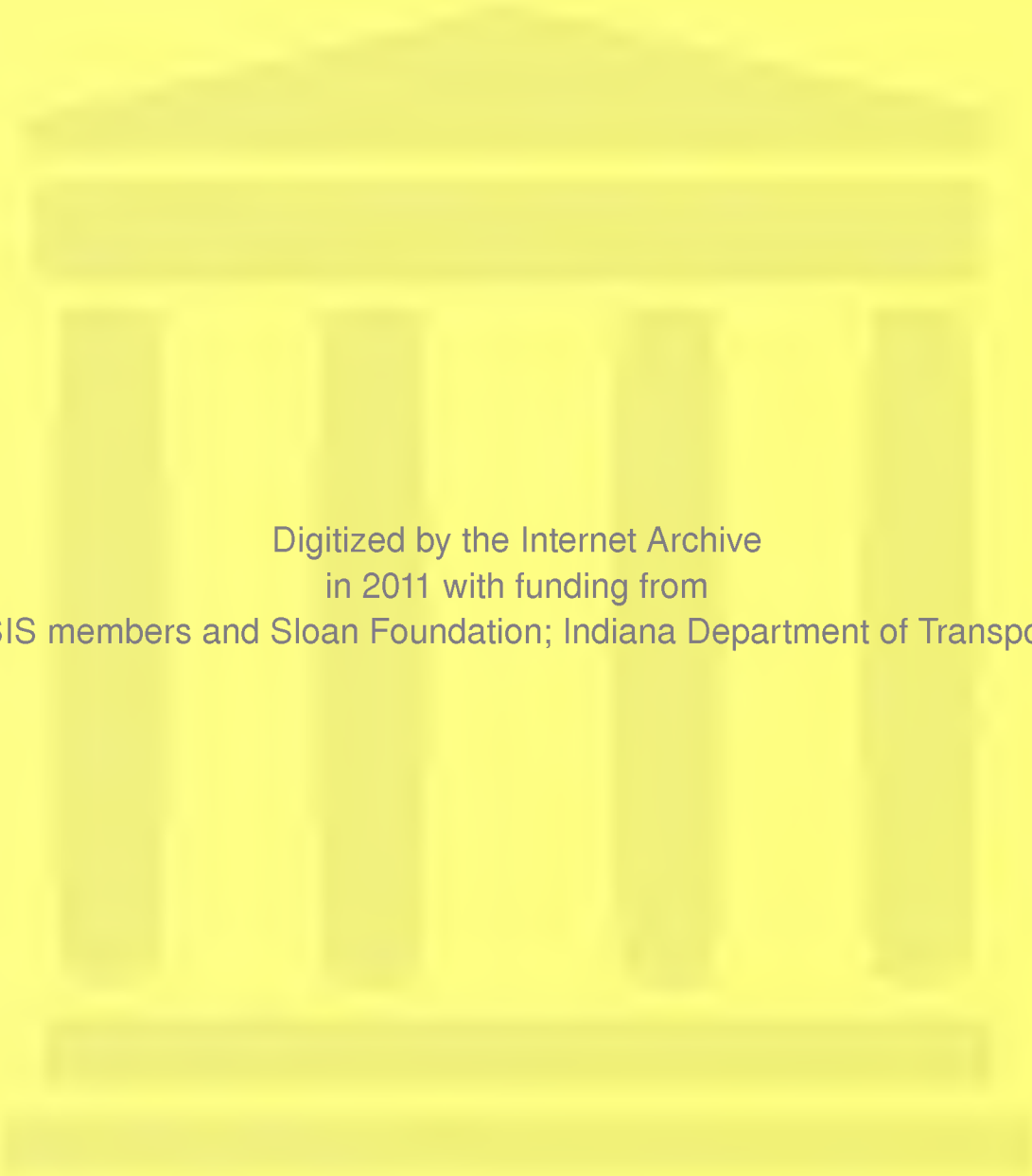
JHRP-78-5

TRAFFIC SPEED REPORT
NO. 104

J. R. Mekemson

G. K. Stafford





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TRAFFIC SPEED REPORT NO. 104

TO: J. F. McLaughlin, Director April 4, 1978
Joint Highway Research Project
File: 8-3-3
FROM: H. L. Michael, Associate Director
Joint Highway Research Project Project: C-36-10C

The attached Progress Report No. 104 on Traffic Speeds is the report of the January-March, 1978 quarterly study of free-flowing automobile and truck speeds on rural, tangent, level sections of Interstate, 4-lane and 2-lane and on urban interstate highways in Indiana. The report has been prepared by Mr. J. R. Mekemson, a Graduate Instructor in Research on our staff, under the direction of Professor H. L. Michael. The data collection was directed by Mr. G. K. Stafford of our staff.

The results indicate that the average speeds of passenger cars and trucks have changed little since the October-December 1977 study. The average speeds of passenger cars and of heavy trucks were found to be 0.3 mph and 0.4 mph less, respectively, than for the previous period. The percentage of all vehicles travelling more than 5 mph above the speed limit decreased to 33 percent while 10 percent were more than 10 mph above the 55 mph limit.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment and acceptance as partial fulfillment of the objectives of this HPR Part I Study. Copies of the report are requested for release to the Indiana State Police and the Indiana Office of Traffic Safety as a normal procedure for these reports.

Respectfully submitted,



Harold L. Michael
Associate Director

HLM:mh

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Interim Report
TRAFFIC SPEED REPORT NO. 104

by

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and

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Joint Highway Research Project

Project No.: C-36-10C

File No.: 8-3-3

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Conducted by

Joint Highway Research Project
Engineering Experiment Station
Purdue University

in Cooperation with the
Indiana State Highway Commission
and the

U.S. Department of Transportation
Federal Highway Administration

The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the Federal Highway Administration.

Purdue University
West Lafayette, Indiana
June 1, 1978

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15. Supplementary Notes Conducted in cooperation with the U.S. Department of Transportation, Federal Highway Administration under a planning study titled "Speed Trends for Indiana Highways".			
16. Abstract <p>This report is another in the continuing study of speeds of vehicles on Indiana highways. Observations of spot speeds were taken on interstate, four-lane and two-lane highways throughout the state during the January-March 1978 quarter.</p> <p>Analysis of the speeds showed the overall average speed for all vehicles was 58.4 mph. The overall average speeds for passenger cars and all trucks were 59.0 mph and 57.8 mph respectively. These overall speeds when compared to the results of the October-December 1977 quarter (Speed Report No. 103) indicated little change. Average speeds obtained were very similar for the two periods - 0.3 mph less for all passenger cars and 0.4 mph less for heavy trucks for the most recent quarter.</p>			
17. Key Words Speeds, Highway Speeds, Rural Highway Speeds, Speed Trends, 55 mph Speed Effect		18. Distribution Statement No restrictions. This document is available to the public through the National Technical Information Service, Springfield, Virginia 22161	
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TRAFFIC SPEED REPORT NO. 104

This report is an analysis of spot speed observations made during January-March 1978. All observations were made of free-flowing vehicles on level, tangent sections of rural and urban highways during daylight and under favorable conditions.

The speed monitoring stations for each highway classification are divided into two groups. The first group is identified as "control stations" and were at the same locations on selected Federal and State highways as used in previous annual studies. These "control stations" are used in each quarterly study. The second group is selected at random for each quarterly study.

Fourteen speed monitoring stations were used for the study reported herein. Seven of these stations were the control stations noted above. The other seven stations were selected at random.

Stations were classified as two-lane, four-lane, rural interstate, or urban interstate highways. A representative sample of spot speeds was obtained at each station in each classification. The site locations were as follows: (See Figure A).

Rural Interstate Highways

*RI-6 (I-65)	7.5 miles north of junction of SR 160
*RI-21 (I-69)	1.6 miles south of junction of SR 18
RI-1 (I-64)	1.7 miles west of US 41
RI-11 (I-74)	2.4 miles east of SR 244

Four-Lane Highways

*4L-14 (US 52)	Just east of Co. Rd. 475W, near Klondike
*4L-32 (US 30)	2.9 miles west of Wanatah city limit sign
4L-10 (SR 37)	2.4 miles south of Marion-Johnson County Line
4L-11 (SR 37)	2.9 miles north of Business 37

Two-Lane Highways

*2L-18 (US 35)	2.5 miles east of junction of I-69
*2L-54 (US 231)	1.1 miles south of junction of SR 234
2 L-1 (US 27)	2.6 miles south of Decatur city limit sign
2L-86 (US 41)	3.5 miles N.W. of Warren-Fountain county line

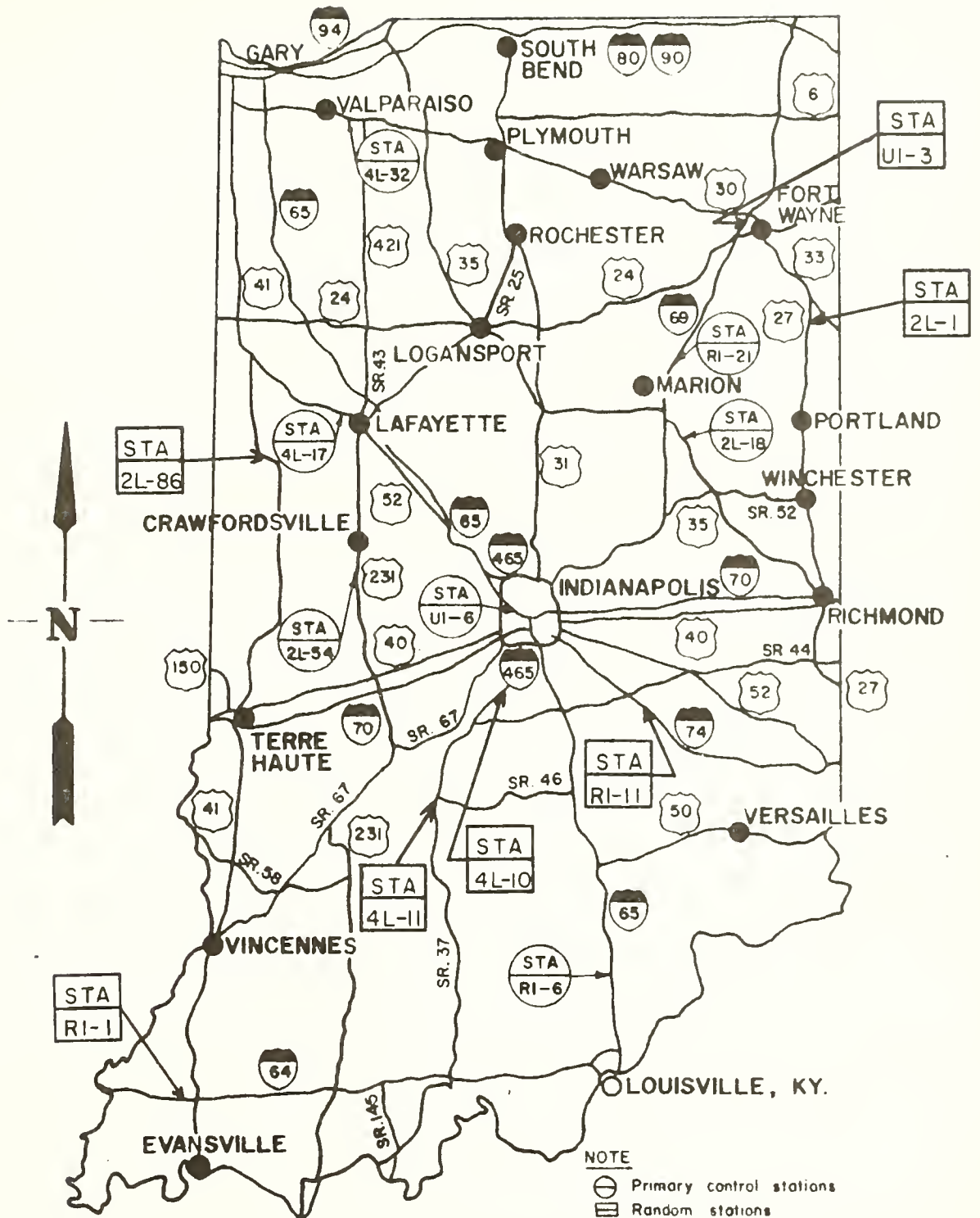


FIGURE A. LOCATIONS OF SPEED-STUDY STATIONS

Urban Interstate Highways

*UI-6 (I-65)	East of White River Bridge
UI-3 (I-64)	1.4 miles south of US 30, 33, 24

*Control stations

The vehicles were classified as Indiana or Non-Indiana Passenger Cars and Light (less than 5000 lbs. gross weight) or Heavy (equal to or more than 5000 lbs. gross weight) Trucks. The analysis was performed as classified and combined, passenger cars or trucks.

The maximum speed limit in Indiana is 55 miles per hour, both on Interstate and other rural highways.

Equipment and Field Procedure

The observations for this study were obtained by use of a Radar Speed Meter. The meter was located in a van type vehicle parked as a disabled vehicle on the right shoulder or as a normally parked vehicle in an access driveway to the road. The van was equipped with one-way vision windows on the rear and side facing traffic so that approaching vehicles could not observe the speed measurement process. The observers were also equipped with CB radio equipment so as to monitor possible radio notification of the speed measurement and of police vehicles in the area. When any such incidents occurred speeds were not taken for at least a following 15 minute period. Such periods rarely occurred. There was rarely indication, in fact, that motorists were ever aware of the presence of a speed measuring station while it was in operation.

The speed was measured at a distance from the van so that the angle of measurement with the highway center line was always less than 10° . No corrections of speeds were necessary at these small angles. At the beginning of the study the accuracy of the meter was checked and any constant discrepancy of readings was corrected accordingly.

RESULTS OF ANALYSIS

The data collected were analyzed and are summarized in Table 1 to 14 in the Appendix. Tables 15, 16, 17 and 18 summarize the data for rural interstate, four-lane, two-lane and urban interstate highways, respectively. Table 19 is the summary for all highways. Tables 20 through 34 are summarized in an FHWA format which is desired.

The average speed for each classification of vehicles on each type of highway for this study was as follows:

	<u>Urban</u>	<u>Interstate</u> <u>Rural</u>	<u>Other</u> <u>Four Lane</u> <u>Rural</u>	<u>Two Lane</u> <u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	59.7	61.0	58.1	57.2
Non-Indiana	61.2	61.4	60.2	58.9
All Passenger Cars	59.9	61.1	58.2	57.3
85 Percentile (all)	63.9	65.7	62.7	62.3
<u>Trucks:</u>				
Less than 5000 lbs.	58.1	59.8	57.3	55.5
5000 lbs. or more	58.4	59.8	57.6	54.5
<u>All Vehicles:</u>				
Average	59.3	61.1	57.9	56.3
85 Percentile	63.5	65.8	62.5	61.3

The percent of vehicles exceeding the speed limit (55 mph) for each classification of vehicle and each type of highway was as follows:

	<u>Urban</u>	<u>Interstate</u> <u>Rural</u>	<u>Four Lane</u>	<u>Two Lane</u>
<u>Passenger Cars:</u>				
Indiana	83.1	88.6	70.3	61.6
Non-Indiana	94.5	88.6	87.3	73.1
All Passenger Cars	84.2	88.6	71.3	62.4
<u>Trucks:</u>				
Less than 5000 lbs.	74.2	78.9	66.7	50.1
5000 lbs. or more	74.2	82.5	69.1	46.8
<u>All Vehicles:</u>	80.0	85.3	70.1	56.5

The percent of vehicles traveling more than 5 mph above the speed limit (exceeding 60 mph) for each case was as follows:

	<u>Urban</u>	<u>Interstate</u> <u>Rural</u>	<u>Other</u> <u>Four Lane</u> <u>Rural</u>	<u>Two Lane</u> <u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	42.3	49.5	27.3	24.9
Non-Indiana	52.7	53.4	47.9	32.8
All Passenger Cars	43.3	50.6	28.6	25.4
<u>Trucks:</u>				
Less than 5000 lbs.	34.4	42.3	28.6	20.2
5000 lbs. or more	33.1	41.8	28.7	13.8
<u>All Vehicles:</u>	39.4	46.5	28.3	21.8

The percent of vehicles traveling more than 10 miles per hour above the speed limit (exceeding 65 mph) for each case was as follows:

	<u>Urban</u>	<u>Interstate</u> <u>Rural</u>	<u>Other</u> <u>Four Lane</u> <u>Rural</u>	<u>Two Lane</u> <u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	11.3	17.1	7.0	7.5
Non-Indiana	12.7	21.0	11.3	11.9
All Passenger Cars	11.5	18.2	7.3	7.8
<u>Trucks:</u>				
less than 5000 lbs.	8.6	14.6	4.4	5.0
5000 lbs. or more	7.7	13.5	5.2	2.6
<u>All Vehicles:</u>	10.1	16.1	6.4	6.1

Summary and Conclusions

The overall average speeds for all vehicles and for all passenger cars in this study were found to be 58.4 mph and 59.0 mph, respectively. The overall average speeds for heavy trucks and for all trucks were found to be 57.8 mph and 57.6 respectively. These overall speeds show little change from the results of the October-December 1977 quarter. All calculated average speeds were slightly less than the previous quarter, 0.3 mph for all vehicles and 0.3 mph for all passenger cars. For heavy trucks and for all trucks the average speeds were respectively 0.4 mph and 0.5 mph less.

Table A presents a comparison of the overall speed results with that of the previous two studies. The 85th percentiles and the average speeds have decreased slightly when compared to the previous October-December 1977 study.

A comparison of January-March 1978 speed data with that for other recent periods for several types of highways for passenger cars and trucks is shown in Tables B, C, D, and E. Speeds were similar to the last quarter on all highway types for both passenger cars and trucks except for heavy trucks on Urban Interstates.

This change on the Urban Interstates was an average speed increase for heavy trucks of 1.8 mph, a percentage of heavy trucks over 55 mph increase of 8.6 percent; a percentage over 60 mph increase of 12.4 percent; and a percentage over 65 mph increase of 6.0 percent.

TABLE A
COMPARISON OF THE OVERALL SPEED RESULTS

	Jan.-March 1978	Oct.-Dec. 1977	July-Sept. 1977	April-June 1977
<u>Average</u>				
All Passenger Cars	59.0	59.3	57.8	58.1
Heavy Trucks	57.8	58.2	57.4	58.6
All Trucks	57.6	58.1	57.0	58.0
<u>85 Percentile</u>				
All Passenger Cars	63.8	64.0	62.6	63.0
Heavy Trucks	62.9	63.4	62.5	63.3
All Trucks	62.8	63.3	62.3	63.0
<u>15 Percentile</u>				
Heavy Trucks	51.8	52.0	51.1	52.9

TABLE B
AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (URBAN)

	Jan.-March 1978	Oct.-Dec. 1977	July-Sept. 1977	April-June 1977
<u>Passenger Cars:</u>				
Indiana	59.7	59.8	58.7	58.7
Non-Indiana	61.2	59.0	59.0	59.1
All Passenger Cars	59.9	59.7	58.8	58.8
85 Percentile (all)	63.9	63.8	62.7	62.9
<u>Trucks:</u>				
Less than 5000 lbs.	58.3	59.1	57.7	57.7
5000 lbs. or more	58.4	56.6	58.2	58.9

TABLE C
AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (RURAL)

	Jan.-March 1978	Oct.-Dec. 1977	July-Sept. 1977	April-June 1977
<u>Passenger Cars:</u>				
Indiana	61.0	61.2	60.1	60.4
Non-Indiana	61.4	61.8	60.1	60.5
All Passenger Cars	61.1	61.5	60.1	60.5
85 Percentile (all)	65.9	66.1	64.5	64.8
<u>Trucks:</u>				
Less than 5000 lbs.	59.8	60.1	58.4	59.3
5000 lbs. or more	59.8	61.3	59.7	60.9

TABLE D
AVERAGE SPEEDS ON OTHER FOUR-LANE HIGHWAYS

	Jan.-March 1978	Oct.-Dec. 1977	July-Sept. 1977	April-June 1977
<u>Passenger Cars:</u>				
Indiana	58.0	58.4	57.0	57.1
Non-Indiana	60.2	59.6	58.1	57.8
All Passenger Cars	58.2	58.6	57.2	57.2
85 Percentile (all)	62.7	62.9	62.0	61.9
<u>Trucks:</u>				
Less than 5000 lbs.	57.3	57.5	55.7	56.7
5000 lbs. or more	57.6	57.8	56.6	58.0

TABLE E
AVERAGE SPEEDS ON TWO-LANE HIGHWAYS

	Jan.-March 1978	Oct.-Dec. 1977	July-Sept. 1977	April-June 1977
<u>Passenger Cars:</u>				
Indiana	57.2	57.7	55.9	56.3
Non-Indiana	58.9	58.4	55.9	57.3
All Passenger Cars	57.3	57.8	55.9	56.4
85 Percentile (all)	62.3	63.0	60.9	61.4
<u>Trucks:</u>				
Less than 5000 lbs.	55.5	56.7	54.9	55.6
5000 lbs. or more	54.4	54.7	53.5	55.1

TABLE 1 SPEED DATA

STATION RI-6 HIGHWAY I-65 LOCATION 7.5 miles north of S.R. 160
 NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Partly Cloudy

THIS OBSERVATION
 DATE 3-20-78 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)
 TIME 1:30-2:20 PM NB DATE 11-9-77
12:20-1:12 PM SB TIME 1:15-1:56 PM NB
12:19-1:00 PM SB

	PASSENGER CARS										TRUCKS									
	INDIANA					NON-INDIANA					ALL					<5000 LBS.				
	LAST	ENI	LAST	ENI	LAST	LAST	ENI	LAST	ENI	LAST	LAST	ENI	LAST	ENI	LAST	LAST	ENI	LAST	ENI	LAST
NUMBER OF VEHICLES	246	246	134	214	112	112	32	184	202	52	52	53	127	149						
AVE. SPEED (MPH)	60.70	61.29	60.70	61.23	60.90	60.90	61.72	60.10	61.18	59.80	61.83	60.20	60.95							
STANDARD DEVIATION	5.400	4.870	5.210	4.975	5.640	5.640	4.144	4.680	5.096	5.460	5.999	4.300	4.735							
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
49 MPH	1.2	4	1.5	5	2	2	0	1.1	0	1.8	0	8	0	0						
54 MPH	9.4	8.1	9.7	8.4	8.9	8.9	6.3	10.3	7.4	14.0	7.5	8.7	7.4	0						
59 MPH	45.1	34.6	42.5	36.0	48.2	48.2	25.0	44.6	44.1	56.1	37.7	39.4	46.3	0						
64 MPH	80.1	76.4	79.8	77.1	80.4	80.4	71.9	85.3	72.8	82.5	69.8	86.6	73.8	0						
69 MPH	94.3	94.7	95.5	93.2	92.2	92.2	100.0	97.3	95.0	94.7	92.5	98.4	96.0	0						
74 MPH	98.4	98.4	97.8	98.1	99.1	99.1	100.0	100.0	98.5	100.0	94.3	100.0	100.0	0						
79 MPH	99.6	99.6	100.0	99.5	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0						
84 MPH	99.6	100.0	100.0	100.0	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0						
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0						
DIRECTION NB																				
NUMBER OF VEHICLES	131	129	71	113	60	60	16	84	100	25	31	59	69							
AVERAGE SPEED	59.40	60.70	59.30	60.75	59.50	59.50	60.31	58.60	62.23	57.40	62.45	59.10	62.13							
DIRECTION SB																				
NUMBER OF VEHICLES	115	117	63	101	52	52	16	100	102	32	22	68	80							
AVERAGE SPEED	62.30	61.95	62.20	61.76	62.50	62.50	63.13	61.30	60.16	61.60	60.95	61.20	59.94							

STATION RI-21
HIGHWAY I-69
LOCATION 1.6 miles south of S.R. 13

NO. OF LANES	TYPE OF SURFACE	WEATHER	CLIMATE
4	Concrete	Cloudy	

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)
DATE 3-21-78	DATE 11-21-77
TIME 3:57-4:01 PM	TIME 11:32 AM - 12:28 PM NB
2:15-3:10 PM	10:29-11:22 AM SB

PASSENGER CARS	NON-INDIANA	ALL	TRUCKS
ALL PRES-	INDIANA PRES-	<5000 LBS.	>5000 LBS.
		PRES-	PRES-

[illegible]

DIRECTION	NUMBER OF VEHICLES	AVERAGE SPEED	86	60.30	61.88	60.10	61.73	60.80	59.37	59.20	58.30	61.30	67	81
DIRECTION NB	128	60.30	61.84	60.30	61.88	60.10	61.73	60.80	59.37	59.20	58.30	61.30	67	81
DIRECTION SB	135	60.10	60.27	59.60	59.99	61.00	61.17	58.50	59.44	58.10	61.25	58.60	59.01	85

TABLE 3 SPEED DATA

STATION RI-1 HIGHWAY I-64 LOCATION 1.7 miles west of U.S. 41 3-13-78 cloudy-rained out
 NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER 3-14-78 cloudy

THIS OBSERVATION DATE 3-13-78 3-14-78 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)

DATE 3:40-4:40 PM 12:10-1:00 PM EB
 TIME 1:47-3:20 PM

PASSENGER CARS										TRUCKS																			
ALL					INDIANA					ALL					<5000 LBS.					>5000 LBS.									
PRES-					PRES-					PRES-					PRES-					PRES-									
LAST					ENT					LAST					ENT					LAST					ENT				
OBSERVATION					OBSERVATION					OBSERVATION					OBSERVATION					OBSERVATION									
NUMBER OF VEHICLES					NUMBER OF VEHICLES					NUMBER OF VEHICLES					NUMBER OF VEHICLES					NUMBER OF VEHICLES									
AVE. SPEED (MPH)					AVE. SPEED (MPH)					AVE. SPEED (MPH)					AVE. SPEED (MPH)					AVE. SPEED (MPH)									
STANDARD DEVIATION					STANDARD DEVIATION					STANDARD DEVIATION					STANDARD DEVIATION					STANDARD DEVIATION									
24 MPH					24 MPH					24 MPH					24 MPH					24 MPH									
29 MPH					29 MPH					29 MPH					29 MPH					29 MPH									
34 MPH					34 MPH					34 MPH					34 MPH					34 MPH									
39 MPH					39 MPH					39 MPH					39 MPH					39 MPH									
44 MPH					44 MPH					44 MPH					44 MPH					44 MPH									
49 MPH					49 MPH					49 MPH					49 MPH					49 MPH									
54 MPH					54 MPH					54 MPH					54 MPH					54 MPH									
59 MPH					59 MPH					59 MPH					59 MPH					59 MPH									
64 MPH					64 MPH					64 MPH					64 MPH					64 MPH									
69 MPH					69 MPH					69 MPH					69 MPH					69 MPH									
74 MPH					74 MPH					74 MPH					74 MPH					74 MPH									
79 MPH					79 MPH					79 MPH					79 MPH					79 MPH									
84 MPH					84 MPH					84 MPH					84 MPH					84 MPH									
89 MPH					89 MPH					89 MPH					89 MPH					89 MPH									
DIRECTION					DIRECTION					DIRECTION					DIRECTION					DIRECTION									
NUMBER OF VEHICLES					NUMBER OF VEHICLES					NUMBER OF VEHICLES					NUMBER OF VEHICLES					NUMBER OF VEHICLES									
AVERAGE SPEED					AVERAGE SPEED					AVERAGE SPEED					AVERAGE SPEED					AVERAGE SPEED									
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NUMBER OF VEHICLES					NUMBER OF VEHICLES					NUMBER OF VEHICLES					NUMBER OF VEHICLES					NUMBER OF VEHICLES									
AVERAGE SPEED					AVERAGE SPEED					AVERAGE SPEED					AVERAGE SPEED					AVERAGE SPEED									

TABLE 4 SPEED DATA

STATION RI-11 HIGHWAY I-74 LOCATION 2.4 miles east of S.R. 244

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Partly Cloudy

THIS OBSERVATION DATE 3-17-78 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)

TIME 11:20 AM - 12:23 PM EB DATE _____ TIME _____

1:20-2:23 PM

	PASSENGER CARS				TRUCKS			
	ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS.	5000 LBS.	>5000 LBS.	PRES-
	PRES-	ENI	LASI	ENI	LASI	ENI	LASI	PRES-
OBSERVATION	LASI	ENI	LASI	ENI	LASI	ENI	LASI	ENI
NUMBER OF VEHICLES	0	252	0	187	0	65	0	132
AVE. SPEED (MPH)	0	61.78	0	61.58	0	62.35	0	58.92
STANDARD DEVIATION	0	5.424	0	5.523	0	5.128	0	4.823
24 MPH	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0
49 MPH	0	4	0	5	0	0	0	8
54 MPH	0	6.3	0	7.0	0	4.6	0	3.8
59 MPH	0	36.5	0	38.0	0	32.3	0	20.9
64 MPH	0	72.6	0	73.3	0	70.8	0	48.8
69 MPH	0	91.7	0	92.5	0	89.2	0	88.4
74 MPH	0	98.4	0	97.9	0	100.0	0	97.7
79 MPH	0	99.6	0	99.5	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION	EB							
NUMBER OF VEHICLES	0	117	0	85	0	32	0	22
AVERAGE SPEED	0	62.07	0	62.00	0	62.25	0	59.45
DIRECTION	WB							
NUMBER OF VEHICLES	0	135	0	102	0	33	0	21
AVERAGE SPEED	0	61.53	0	61.23	0	62.45	0	59.14

TABLE 5 SPEED DATA

STATION 4L-17 HIGHWAY US 52 LOCATION 150 feet east of C.R. 475W near Klondike

NO. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Cloudy

THIS OBSERVATION DATE 3-2-78 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)

DATE 12-08-11:55 PM EB DATE 11-8-77

TIME 9:00-11:00 AM WB TIME 12:29-1:44 PM EB

9:29-11:26 AM WB

PASSENGER CARS										TRUCKS																				
INDIANA					NON-INDIANA					ALL					<5000 LBS.					>5000 LBS.										
PRES-					PRES-					PRES-					PRES-					PRES-										
OBSERVATION	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI
NUMBER OF VEHICLES	278	284	246	280	32	4	151	156	89	96	62	60	56	18	56	62	55	80	55	47	54	82	54	80	55	47	54	82	54	80
AVE. SPEED (MPH)	56.80	57.02	56.60	57.14	58.00	49.00	56.10	56.18	56.30	56.62	55.80	55.47	56.20	56.48	56.58	56.81	56.87	57.00	57.14	57.26	57.30	57.34	57.38	57.42	57.46	57.50	57.54	57.58	57.62	
STANDARD DEVIATION	5.90	5.73	6.00	5.65	5.00	6.48	7.25	5.82	7.04	6.01	7.58	5.48	6.20	6.48	6.58	6.81	6.87	6.90	6.94	6.98	7.02	7.06	7.10	7.14	7.18	7.22	7.26	7.30	7.34	
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	7	1	8	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	4	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	8	8	8	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7
54 MPH	28	30	30	30	12	7	13	12	10	13	12	10	13	12	10	13	12	10	13	12	10	13	12	10	13	12	10	13	12	10
59 MPH	71	69	72	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
64 MPH	91	90	91	90	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
69 MPH	98	97	98	97	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
74 MPH	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
79 MPH	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
84 MPH	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
89 MPH	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
DIRECTION EB	146	157	131	157	15	0	62	68	43	47	26	21	56	20	56	69	58	10	54	50	55	40	54	60	54	30	54	71	54	71
NUMBER OF VEHICLES	132	127	115	123	17	4	82	88	46	49	36	39	57	40	57	43	57	80	57	50	56	78	57	90	57	00	57	00	55	87
AVERAGE SPEED	57.40	57.43	57.30	57.71	57.80	49.00	57.50	56.78	57.90	57.51	57.00	55.87	57.20	57.40	57.50	57.60	57.70	57.80	57.90	58.00	58.10	58.20	58.30	58.40	58.50	58.60	58.70	58.80	58.90	59.00

TABLE 6 SPEED DATA

STATION 4L-32 HIGHWAY U.S. 30 LOCATION 2.9 miles west of Manatah city limit sign
 NO. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Partly Cloudy

THIS OBSERVATION

DATE 3-23-78 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)
 TIME 12:25-1:30 PM EB DATE 11-18-77
11:15 AM-12:15 PM WB TIME 10:34-11:28 AM EB
9:28-10:16 AM WB

	PASSENGER CARS										TRUCKS									
	INDIANA					NON-INDIANA					ALL					<5000 LBS.				
	PRES-	ENT	LAST	ENT	LAST	PRES-	ENT	LAST	ENT	LAST	PRES-	ENT	LAST	ENT	LAST	PRES-	ENT	LAST	ENT	LAST
OBSERVATION	LAST	ENT	LAST	ENT	LAST	PRES-	ENT	LAST	ENT	LAST	PRES-	ENT	LAST	ENT	LAST	PRES-	ENT	LAST	ENT	LAST
NUMBER OF VEHICLES	180	218	131	196	49	22	22	248	224	47	57	57	201	167		>5000 LBS.				
AVE. SPEED (MPH)	57.50	58.27	57.40	58.10	57.50	59.77	58.50	58.67	57.30	57.88	58.93	58.80	58.93							
STANDARD DEVIATION	4.790	4.120	4.510	4.126	5.540	3.829	4.530	4.312	4.130	5.075	4.580	4.000								
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	2.8	2.8	2.8	3.1	8.2	0	0	1.2	1.8	4.3	3.5	1.4	3.5	1.2						
54 MPH	27.8	16.5	27.5	17.3	28.6	9.1	16.9	14.3	23.4	21.1	15.4	12.0								
59 MPH	62.4	61.5	71.8	64.3	63.3	36.4	58.0	58.0	68.1	61.4	56.9									
64 MPH	92.2	94.5	92.4	95.4	91.8	86.4	91.2	92.9	97.9	93.0	92.8									
69 MPH	97.8	99.5	98.5	99.5	95.9	100.0	100.0	99.1	100.0	98.2	92.4									
74 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0									
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0									
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0									
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0									
DIRECTION	EB																			
NUMBER OF VEHICLES	94	110	68	96	26	14	121	111	24	29	97	82								
AVERAGE SPEED	57.60	58.49	57.70	58.22	57.50	60.36	59.30	58.31	56.80	58.21	59.90	58.34								
DIRECTION	WB																			
NUMBER OF VEHICLES	86	108	63	100	23	8	127	113	23	28	104	85								
AVERAGE SPEED	57.30	58.04	57.20	57.98	57.50	58.75	57.80	59.02	57.80	57.54	57.80	59.51								

TABLE 7 SPEED DATA

STATION 4L-10
HIGHWAY S.R. 37
LOCATION 3.4 miles south of Marianna Johnson County Line

NO. OF LANES	TYPE OF SURFACE	WEATHER
4	Concrete	Cloudy

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
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51	51
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57	57
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59	59
60	60
61	61
62	62
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64	64
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66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100
101	101
102	102
103	103

DATE 3-15-78 DATE _____

TIME 1:55 AM - 1:08 PM NB

1122-01-1122-UR--
10:45-11:44 AM SB

OBSERVATION	PASSENGER CARS			INDIANA			NON-INDIANA			ALL			TRUCKS		
	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-
NUMBER OF VEHICLES	0	302	0	0	285	0	0	24	0	143	0	0	0	83	0
AVERAGE SPEED (MPH)	0	58.78	0	0	58.61	0	0	60.75	0	57.87	0	0	0	57.80	0
STANDARD DEVIATION	0	5.271	0	0	5.320	0	0	4.266	0	5.699	0	0	0	5.918	0
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	6	0	0	7	0	0	0	0	7	0	0	0	0	1.7
49 MPH	0	3.9	0	0	4.2	0	0	0	0	7.7	0	0	0	8.4	6.7
54 MPH	0	19.1	0	0	20.4	0	0	4.2	0	25.9	0	0	0	24.1	28.3
59 MPH	0	60.2	0	0	62.5	0	0	33.3	0	65.7	0	0	0	71.1	58.3
64 MPH	0	86.7	0	0	86.7	0	0	87.5	0	92.3	0	0	0	92.8	91.7
69 MPH	0	97.4	0	0	97.5	0	0	95.8	0	97.9	0	0	0	96.4	100.0
74 MPH	0	99.4	0	0	99.3	0	0	100.0	0	98.6	0	0	0	97.8	100.0
79 MPH	0	99.7	0	0	99.6	0	0	100.0	0	100.0	0	0	0	100.0	100.0
84 MPH	0	100.0	0	0	100.0	0	0	100.0	0	100.0	0	0	0	100.0	100.0
89 MPH	0	100.0	0	0	100.0	0	0	100.0	0	100.0	0	0	0	100.0	100.0
DIRECTION	NB														
NUMBER OF VEHICLES	0	164	0	0	153	0	0	11	0	70	0	0	0	43	27
AVERAGE SPEED	0	59.43	0	0	59.37	0	0	60.36	0	58.33	0	0	0	58.53	58.00
DIRECTION	SB														
NUMBER OF VEHICLES	0	145	0	0	132	0	0	13	0	73	0	0	0	40	33
AVERAGE SPEED	0	58.03	0	0	57.73	0	0	61.08	0	57.44	0	0	0	57.00	57.97

TABLE 8 SPEED DATA

STATION 4L-11
HIGHWAY S.R. 37
LOCATION 2.9 miles north of Business 37

NO. OF LANES	TYPE OF SURFACE	WEATHER
4	Asphalt	Partly Cloudy

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
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14	14
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87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

DATE 3-16-78

TIME 12:43-1:45 PM NB

11:28:12:24 PM SB

PASSENGER CARS				TRUCKS			
ALL		INDIANA		ALL		INDIANA	
PRES-	ENT	LAST	ENT	PRES-	ENT	LAST	ENT
OBSERVATION							
NUMBER OF VEHICLES	0	309	0	288	0	21	0
AVERAGE SPEED (MPH)	0	58.49	0	58.22	0	62.14	0
STANDARD DEVIATION	0	5.217	0	5.062	0	6.036	0
24 MPH	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0
44 MPH	0	3	0	3	0	0	0
49 MPH	0	2.9	0	3.1	0	0	0
54 MPH	0	21.0	0	22.2	0	4.8	0
59 MPH	0	61.8	0	63.2	0	42.9	0
64 MPH	0	88.7	0	89.9	0	71.4	0
69 MPH	0	96.8	0	97.2	0	90.5	0
74 MPH	0	99.4	0	99.7	0	95.2	0
79 MPH	0	99.7	0	100.0	0	95.2	0
84 MPH	0	100.0	0	100.0	0	100.0	0
89 MPH	0	100.0	0	100.0	0	100.0	0
DIRECTION	NB						
NUMBER OF VEHICLES	0	155	0	146	0	9	0
AVERAGE SPEED	0	57.23	0	57.07	0	59.78	0
DIRECTION	SB						
NUMBER OF VEHICLES	0	154	0	142	0	12	0
AVERAGE SPEED	0	59.76	0	59.41	0	63.92	0

TABLE 2 SPEED DATA

STATION 21-18 HIGHWAY U.S. 35 LOCATION 2.4 miles east of I-69 at Cleo Glass Research

NO. OF LANES 2 TYPE OF SURFACE Asphalt WEATHER Cloudy

THIS OBSERVATION
 DATE 3-21-78
 TIME 10:55 AM
 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)
 DATE 11-21-77
 TIME 1:37-3:28 PM

	PASSENGER CARS				TRUCKS			
	ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS.	>5000 LBS.	PRES-	PRES-
OBSERVATION	ENI	LASI	ENI	LASI	ENI	LASI	ENI	LASI
NUMBER OF VEHICLES	283	249	232	17	146	120	68	67
AVERAGE SPEED (MPH)	57.60	57.94	57.81	59.71	55.30	55.96	57.74	54.30
STANDARD DEVIATION	6.080	5.480	5.459	5.632	6.360	5.507	4.352	6.200
24 MPH	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0
44 MPH	2.1	4	4	0	7	5	0	1.5
49 MPH	7.1	6.4	6.9	0	6.2	4.2	0	7.4
54 MPH	27.9	23.7	23.7	0	15.8	11.1	2.9	19.4
59 MPH	67.1	67.7	68.1	23.2	43.2	35.8	25.0	42.3
64 MPH	88.0	88.3	91.8	52.9	73.3	74.7	67.6	76.1
69 MPH	96.5	96.1	97.8	82.4	93.2	95.8	94.1	97.0
74 MPH	99.3	99.2	98.7	88.2	99.3	98.9	98.5	100.0
79 MPH	100.0	100.0	99.6	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	99.6	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION EB	129	125	114	11	84	97	43	40
NUMBER OF VEHICLES	58.40	58.02	57.88	59.45	56.20	57.64	58.37	54.70
AVERAGE SPEED	154	124	118	6	62	93	25	27
DIRECTION WB	56.90	57.87	56.80	57.75	57.70	54.22	56.64	53.70
NUMBER OF VEHICLES								
AVERAGE SPEED								

DIRECTION	NB	110	130	102	117	8	13	102	107	43	45	59	62
NUMBER OF VEHICLES													
AVERAGE SPEED		56.00	58.28	55.90	58.35	57.40	57.69	55.70	55.08	57.00	56.11	54.80	54.34
DIRECTION	SB												
NUMBER OF VEHICLES		131	118	114	115	17	3	94	106	43	68	51	38
AVERAGE SPEED		55.40	57.75	55.30	57.63	55.80	62.00	55.80	55.92	55.30	56.75	56.30	54.45

TABLE 11 SPEED DATA

STATION 2L-1 HIGHWAY U.S. 27 LOCATION 2.6 miles south of Decatur city limit sign

NO. OF LANES 2 TYPE OF SURFACE Asphalt WEATHER Partly Cloudy

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)
 DATE 3-27-78
 TIME 12:20-2:35 PM

PASSENGER CARS										TRUCKS																									
INDIANA					NON-INDIANA					<5000 LBS.					>5000 LBS.																				
ALL		PRES-		ENT		LAST		ENT		LAST		ENT		LAST		PRES-		ENT		LAST		PRES-		ENT		LAST		PRES-		ENT		LAST			
OBSERVATION		LAST		ENT		LAST		ENT		LAST		ENT		LAST		ENT		LAST		ENT		LAST		PRES-		ENT		LAST		PRES-		ENT		LAST	
NUMBER OF VEHICLES		0		285		0		279		0		6		0		166		0		64		0		102		0		0		102		0			
AVE. SPEED (MPH)		0		56.39		0		56.39		0		56.00		0		54.46		0		54.12		0		54.67		0		0		54.67		0			
STANDARD DEVIATION		0		5.196		0		5.201		0		5.404		0		5.278		0		5.353		0		5.730		0		0		5.730		0			
24 MPH		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0			
29 MPH		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0			
34 MPH		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0			
39 MPH		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0			
44 MPH		0		1.4		0		1.4		0		0		0		0		0		0		0		0		0		0		0		0			
49 MPH		0		6.7		0		6.8		0		0		0		0		0		0		0		0		0		0		0		0			
54 MPH		0		36.5		0		36.6		0		33.3		0		47.6		0		48.4		0		47.1		0		0		47.1		0			
59 MPH		0		75.1		0		74.9		0		83.3		0		81.9		0		87.5		0		78.4		0		0		78.4		0			
64 MPH		0		91.9		0		91.8		0		100.0		0		98.8		0		98.4		0		99.0		0		0		99.0		0			
69 MPH		0		98.9		0		98.9		0		100.0		0		100.0		0		100.0		0		100.0		0		0		100.0		0			
74 MPH		0		100.0		0		100.0		0		100.0		0		100.0		0		100.0		0		100.0		0		0		100.0		0			
79 MPH		0		100.0		0		100.0		0		100.0		0		100.0		0		100.0		0		100.0		0		0		100.0		0			
84 MPH		0		100.0		0		100.0		0		100.0		0		100.0		0		100.0		0		100.0		0		0		100.0		0			
89 MPH		0		100.0		0		100.0		0		100.0		0		100.0		0		100.0		0		100.0		0		0		100.0		0			
DIRECTION		NB																																	
NUMBER OF VEHICLES		0		144		0		142		0		2		0		84		0		31		0		53		0		0		53		0			
AVERAGE SPEED		0		57.01		0		57.05		0		54.50		0		55.50		0		55.19		0		55.68		0		0		55.68		0			
DIRECTION		SB																																	
NUMBER OF VEHICLES		0		141		0		137		0		4		0		82		0		33		0		49		0		0		49		0			
AVERAGE SPEED		0		55.74		0		55.72		0		56.75		0		53.59		0		53.12		0		53.57		0		0		53.57		0			

TABLE 12 SPEED DATA

STATION 2L-86 HIGHWAY U.S. 41 LOCATION 3.5 miles N.W. of Warren-Fountain County Line

NO. OF LANES 2 TYPE OF SURFACE Asphalt WEATHER Clear

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)
 DATE 3-28-78 DATE
 TIME 10:05 AM - 3:30 PM TIME

OBSERVATION	PASSENGER CARS				TRUCKS			
	INDIANA		NON-INDIANA		ALL		ALL	
	PRES-	ENI	LASI	PRES-	PRES-	ENI	PRES-	ENI
NUMBER OF VEHICLES	0	252	0	224	0	183	0	116
AVE. SPEED (MPH)	0	57.11	0	56.85	0	53.78	0	54.07
STANDARD DEVIATION	0	6.740	0	6.680	0	7.509	0	7.761
24 MPH	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0
39 MPH	0	.8	0	.9	0	1.1	0	0
44 MPH	0	4.4	0	4.5	0	2.2	0	1.7
49 MPH	0	9.2	0	10.7	0	10.4	0	9.5
54 MPH	0	34.9	0	36.6	0	25.1	0	24.1
59 MPH	0	69.0	0	70.1	0	55.2	0	57.8
64 MPH	0	88.2	0	90.2	0	78.7	0	78.4
69 MPH	0	95.6	0	96.4	0	94.5	0	93.1
74 MPH	0	98.0	0	98.2	0	98.4	0	97.4
79 MPH	0	99.6	0	99.6	0	98.9	0	98.3
84 MPH	0	100.0	0	100.0	0	98.9	0	98.3
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION ED	0	100.0	0	100.0	0	100.0	0	100.0
NUMBER OF VEHICLES	0	144	0	123	0	89	0	58
AVERAGE SPEED	0	57.52	0	57.06	0	54.12	0	54.83
DIRECTION WB	0	108	0	101	0	94	0	58
NUMBER OF VEHICLES	0	56.56	0	56.60	0	53.46	0	53.31
AVERAGE SPEED	0	56.56	0	56.60	0	53.46	0	53.31

TABLE 14. SPEED DATA

STATION UI-3 HIGHWAY I-64 LOCATION 1.4 miles south of U.S. 30.33.24

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Clear

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)

DATE 3-22-78
 TIME 8:35-9:10 AM NB
9:30-10:20 AM SB

OBSERVATION	PASSENGER CARS						TRUCKS					
	ALL			INDIANA			NON-INDIANA			ALL		
	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-
NUMBER OF VEHICLES	0	244	0	0	209	0	0	35	0	213	0	53
AVE. SPEED (MPH)	0	60.29	0	0	60.16	0	0	61.06	0	58.33	0	58.43
STANDARD DEVIATION	0	4.695	0	0	4.718	0	0	4.544	0	5.471	0	5.902
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	0	0	0	0	0	0	0	0	0	0	0	0
54 MPH	0	7.4	0	0	7.7	0	0	5.7	0	6.1	0	1.6
59 MPH	0	48.4	0	0	50.7	0	0	34.3	0	21.6	0	19.0
64 MPH	0	84.0	0	0	84.7	0	0	80.0	0	60.6	0	61.9
69 MPH	0	94.3	0	0	94.7	0	0	91.4	0	89.7	0	88.2
74 MPH	0	99.2	0	0	99.0	0	0	100.0	0	98.1	0	95.2
79 MPH	0	100.0	0	0	100.0	0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	0	100.0	0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	0	100.0	0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	126	0	0	119	0	0	7	0	105	0	26
AVERAGE SPEED	0	60.70	0	0	60.69	0	0	60.86	0	59.95	0	60.35
DIRECTION SB												
NUMBER OF VEHICLES	0	118	0	0	90	0	0	28	0	108	0	37
AVERAGE SPEED	0	59.86	0	0	59.47	0	0	61.11	0	56.76	0	57.08

TABLE 15 SPEED DATA

STATION RIALL HIGHWAY 4-Lane Rural LOCATION See Individual Stations

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION
 DATE Jan. - March 1978 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)
 TIME DATE Oct. - Dec. 1977
 TIME

OBSERVATION	PASSENGER CARS				TRUCKS			
	INDIANA		NON-INDIANA		ALL		<5000 LBS.	
	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	0	929	0	667	0	835	0	213
AVE. SPEED (MPH)	0	61.14	0	61.05	0	59.79	0	59.79
STANDARD DEVIATION	0	5.113	0	5.147	0	5.374	0	5.898
24 MPH	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0
49 MPH	0	0	0	0	0	0	0	0
54 MPH	0	0	0	0	0	0	0	0
59 MPH	0	0	0	0	0	0	0	0
64 MPH	0	0	0	0	0	0	0	0
69 MPH	0	0	0	0	0	0	0	0
74 MPH	0	0	0	0	0	0	0	0
79 MPH	0	0	0	0	0	0	0	0
84 MPH	0	0	0	0	0	0	0	0
89 MPH	0	0	0	0	0	0	0	0

TABLE 16 SPEED DATA

STATION 44ALL HIGHWAY 4-Lane Rural LOCATION See Individual Stations

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)

DATE Jan-March 1978

DATE Oct-Dec 1977

TIME

OBSERVATION	PASSENGER CARS			TRUCKS		
	INDIANA			NON-INDIANA		
	ALL	INDIANA	NON-INDIANA	ALL	NON-INDIANA	ALL
	PRES-	ENI	LASI	PRES-	ENI	LASI
NUMBER OF VEHICLES	0 1120	0 1049	0 71	0 652	0 297	0 362
AVERAGE SPEED (MPH)	0 58.15	0 58.01	0 60.20	0 57.51	0 57.34	0 57.64
STANDARD DEVIATION	0 5.218	0 5.167	0 5.572	0 5.355	0 5.541	0 5.202
24 MPH	0 0	0 0	0 0	0 0	0 0	0 0
29 MPH	0 0	0 0	0 0	0 0	0 0	0 0
34 MPH	0 0	0 0	0 0	0 0	0 0	0 0
39 MPH	0 3	0 3	0 0	0 5	0 3	0 6
44 MPH	0 7	0 7	0 1.4	0 1.7	0 1.7	0 1.7
49 MPH	0 4.5	0 4.5	0 4.2	0 7.3	0 7.7	0 6.9
54 MPH	0 22.1	0 22.9	0 9.9	0 24.1	0 24.9	0 23.5
59 MPH	0 63.1	0 64.6	0 40.8	0 65.1	0 67.7	0 63.0
64 MPH	0 89.8	0 90.3	0 83.1	0 93.2	0 92.6	0 93.6
69 MPH	0 97.8	0 97.9	0 95.8	0 98.8	0 98.3	0 99.2
74 MPH	0 99.6	0 99.6	0 98.6	0 99.7	0 99.3	0 100.0
79 MPH	0 99.8	0 99.9	0 98.6	0 100.0	0 100.0	0 100.0
84 MPH	0 100.0	0 100.0	0 100.0	0 100.0	0 100.0	0 100.0
89 MPH	0 100.0	0 100.0	0 100.0	0 100.0	0 100.0	0 100.0

STATION	2-LANE	RURAL	LOCATION	See Individual Stations
TABLE 17 -- SPEED DATA				

WEATHER

THIS OBSERVATION
DATE Jan-March 1978
TIME -----

TRUCKS

TABLE 18 SPEED DATA

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STATION U1ALL----- HIGHWAY Interstate
                                Urban
                                LOCATION See Individual Stations
NO. OF LANES ----- TYPE OF SURFACE ----- WEATHER -----
THIS OBSERVATION
DATE Jan.-March 1978-----
TIME -----
LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)
DATE Oct.-Dec. 1977-----
TIME -----

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OBSERVATION	PASSENGER CARS				TRUCKS			
	ALL		INDIANA		ALL		INDIANA	
	PRES-	ENI	LASI	ENI	PRES-	ENI	LASI	ENI
NUMBER OF VEHICLES	0	575	0	520	0	376	0	128
AVERAGE SPEED (MPH)	0	59.88	0	59.74	0	58.36	0	58.28
STANDARD DEVIATION	0	5.063	0	5.121	0	5.304	0	5.453
-24 MPH	0	0	0	0	0	0	0	0
-29 MPH	0	0	0	0	0	0	0	0
-34 MPH	0	0	0	0	0	0	0	0
-39 MPH	0	0	0	0	0	0	0	0
-44 MPH	0	3	0	4	0	1.1	0	8
-49 MPH	0	1.9	0	2.1	0	6.1	0	5.5
-54 MPH	0	11.7	0	12.5	0	20.2	0	20.3
-59 MPH	0	48.9	0	50.4	0	59.0	0	60.9
-64 MPH	0	85.4	0	85.8	0	90.2	0	89.1
-69 MPH	0	24.8	0	25.0	0	98.7	0	96.9
-74 MPH	0	99.5	0	99.4	0	100.0	0	100.0
-79 MPH	0	100.0	0	100.0	0	100.0	0	100.0
-84 MPH	0	100.0	0	100.0	0	100.0	0	100.0
-89 MPH	0	100.0	0	100.0	0	100.0	0	100.0

TABLE 19 SPEED DATA

STATION ALL HIGHWAY Indiana LOCATION See Individual Stations

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 103)

DATE Jan. March 1978 DATE Oct. Dec. 1977

TIME TIME

	PASSENGER CARS			TRUCKS		
	ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS.	>5000 LBS.
OBSERVATION	LASI	ENI	LASI	LASI	ENI	LASI
NUMBER OF VEHICLES	3658	3203	455	2622	999	1623
AVE. SPEED (MPH)	58.95	58.69	60.79	57.63	57.33	57.81
STANDARD DEVIATION	5.576	5.570	5.262	5.931	6.175	5.769
24 MPH	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0
39 MPH	0	1	0	1	1	1
44 MPH	0	8	4	5	5	4
49 MPH	0	38	11	25	24	25
54 MPH	0	192	27	87	97	80
59 MPH	0	567	411	261	282	248
64 MPH	0	858	785	629	657	611
69 MPH	0	959	932	897	900	895
74 MPH	0	992	991	981	975	985
79 MPH	0	998	991	997	992	999
84 MPH	0	1000	998	999	998	1000
89 MPH	0	1000	1000	1000	1000	1000

TABLE 20

Monitoring of Speed
(Statistical Summary)☒ Quarterly Report--Calendar Quarter Ending March 31, 1978

or

☐ Annual Report--Year Ending _____STATE Indiana

	Miles	Number of Monitor Locations	Number of Vehicles Measured	Duration of Measurement Session (Hours)	Average Speed (MPH)	Median Speed (MPH)	85th Percentile Speed (MPH)	Percent of Motorists Exceeding		
								55 MPH	60 MPH	65 MPH
Interstate Urban	218	2	951	2.6	59.3	58.7	63.5	80	39	10
Interstate Rural	849	4	1764	8.0	60.0	60.0	65.3	85	46	16
Multi-lane, Divided	657	4	1779	10.1	57.9	57.4	62.5	70	28	6
Multi-lane, Undivided										
(Included in multi-lane, divided classification)										
2-Lane, Rural	8030	4	1786	13.3	56.3	55.9	61.3	56	22	6
State Total	9754	14	6280	34.0	58.4	57.9	63.4	72	33	10

TABLE 21

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY INTERSTATE, RURAL
STATION NUMBER RI-6 LOCATION 7.5 miles north of SR 160
NUMBER OF SESSIONS 1 DATES 3-20-78 VEHICLES MEASURED 448
AVERAGE SPEED (MPH) 61.2 STANDARD DEVIATION 5.0
MEDIAN SPEED (MPH) 60.2 85TH PERCENTILE SPEED (MPH) 66.0
PERCENTAGE OF VEHICLES EXCEEDING:
55 MPH 20 60 MPH 51 65 MPH 20

TABLE 22

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	INTERSTATE, RURAL
STATION NUMBER	RI-21
LOCATION	1.6 miles south of S.R. 18
NUMBER OF SESSIONS	1
DATES	3-21-78
VEHICLES MEASURED	458
AVERAGE SPEED (MPH)	60.3
STANDARD DEVIATION	5.4
MEDIAN SPEED (MPH)	59.6
85TH PERCENTILE SPEED (MPH)	65.0
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	84
60 MPH	47
65 MPH	15

TABLE 23

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	INTERSTATE	RURAL
STATION NUMBER	RI-1	LOCATION 1.7 miles west of US 41
NUMBER OF SESSIONS	1	DATES
		VEHICLES MEASURED
AVERAGE SPEED (MPH)	59.8	STANDARD DEVIATION
		5.3
MEDIAN SPEED (MPH)	59.0	85TH PERCENTILE SPEED (MPH)
		64.6
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	81	60 MPH
	40	65 MPH
		13

TABLE 24--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	INTERSTATE, RURAL
STATION NUMBER	RI-11
LOCATION	2.4 miles east of SR 244
NUMBER OF SESSIONS	1
DATES	3-17-18
VEHICLES MEASURED	427
AVERAGE SPEED (MPH)	60.6
STANDARD DEVIATION	5.4
MEDIAN SPEED (MPH)	59.7
85TH PERCENTILE SPEED (MPH)	65.5
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	85
60 MPH	48
65 MPH	17

TABLE 25--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
 STATION NUMBER 4L-17 LOCATION 150 feet east of County Road 475W, near Klondike
 NUMBER OF SESSIONS 1 DATES 3-2-78 VEHICLES MEASURED 440
 AVERAGE SPEED (MPH) 56.7 STANDARD DEVIATION 5.8
 MEDIAN SPEED (MPH) 56.1 85TH PERCENTILE SPEED (MPH) 61.9
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 59 60 MPH 23 65 MPH 6

TABLE 26--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
 STATION NUMBER 4L-32 LOCATION 2.9 miles west of Wanatah city limit sign
 NUMBER OF SESSIONS 1 DATES 3-23-78 VEHICLES MEASURED 442
 AVERAGE SPEED (MPH) 58.5 STANDARD DEVIATION 4.2
 MEDIAN SPEED (MPH) 58.0 85TH PERCENTILE SPEED (MPH) 62.2
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 77 60 MPH 31 65 MPH 4

TABLE 27 -

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY -----MULTI-LANE, DIVIDED (RURAL)-----
 STATION NUMBER 41-10 LOCATION 3.4 miles south of Marion-Johnson County line
 NUMBER OF SESSIONS 1 DATES 3-15-78 VEHICLES MEASURED 452
 AVERAGE SPEED (MPH) 58.5 STANDARD DEVIATION 5.4
 MEDIAN SPEED (MPH) 57.7 85TH PERCENTILE SPEED (MPH) 63.4
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 73.2 60 MPH 31.2 65 MPH 8.2

TABLE 28--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
 STATION NUMBER 41-11 LOCATION 2.9 miles north of Business 37
 NUMBER OF SESSIONS 1 DATES 3-16-78 VEHICLES MEASURED 445
 AVERAGE SPEED (MPH) 58.0 STANDARD DEVIATION 5.4
 MEDIAN SPEED (MPH) 57.5 85TH PERCENTILE SPEED (MPH) 62.4
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 71 60 MPH 29 65 MPH 7

TABLE 29

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 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TABLE 30

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	TWO-LANE	RURAL
STATION NUMBER	2L-54	LOCATION 1.0 miles south of SR 234
NUMBER OF SESSIONS	1	DATES 3-6-78 VEHICLES MEASURED 461
AVERAGE SPEED (MPH)	56.9	STANDARD DEVIATION 6.1
MEDIAN SPEED (MPH)	56.1	85TH PERCENTILE SPEED (MPH) 62.1
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	59	60 MPH 23 65 MPH 8

TABLE 31--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY TWO-LANE, RURAL
 STATION NUMBER 2L-1 LOCATION 2.6 miles south of Decatur city limit sign
 NUMBER OF SESSIONS 1 DATES 3-22-78 VEHICLES MEASURED 451
 AVERAGE SPEED (MPH) 55.7 STANDARD DEVIATION 5.4
 MEDIAN SPEED (MPH) 55.2 85TH PERCENTILE SPEED (MPH) 60.4
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 52 60 MPH 17 65 MPH 4

TABLE 32

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY TWO-LANE, RURAL
 STATION NUMBER 2L-86 LOCATION 3.5 miles NW of Warren-Fountain County line
 NUMBER OF SESSIONS 1 DATES 3-28-78 VEHICLES MEASURED 435
 AVERAGE SPEED (MPH) 55.7 STANDARD DEVIATION 7.3
 MEDIAN SPEED (MPH) 55.1 85TH PERCENTILE SPEED (MPH) 61.6
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 50 60 MPH 23 65 MPH 7

TABLE 33--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY INTERSTATE, URBAN
 STATION NUMBER UI-6 LOCATION just east of White River
 NUMBER OF SESSIONS 1 DATES 3-28-78 VEHICLES MEASURED 494
 AVERAGE SPEED (MPH) 59.2 STANDARD DEVIATION 5.3
 MEDIAN SPEED (MPH) 58.8 85TH PERCENTILE SPEED (MPH) 63.4
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 79 60 MPH 40 65 MPH 9

TABLE 34--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	INIER5IAIE, URBAN		
STATION NUMBER	UI-3	LOCATION	1.4 miles south of US 30, 33 and 24
NUMBER OF SESSIONS	1	DATES	3-22-78
		VEHICLES MEASURED	457
AVERAGE SPEED (MPH)	52.4	STANDARD DEVIATION	5.2
MEDIAN SPEED (MPH)	58.6	85TH PERCENTILE SPEED (MPH)	63.7
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	81	60 MPH	39
		65 MPH	11

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